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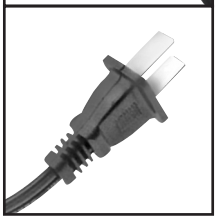
VECTOR
The Freedom of POWER

MINI FRIDGE
COOLER AND WARMER

INCLUDES

- 110-VOLT AC ADAPTER
- 12-VOLT FUSE-PROTECTED DC PLUG FOR USE WITH VEHICLE
- EXTRA LONG 7-FOOT DC POWER CORD



VEC224S

VEC224M

OWNER'S MANUAL & WARRANTY INFORMATION

THIS MANUAL CONTAINS IMPORTANT INFORMATION REGARDING SAFETY, OPERATION, MAINTENANCE AND STORAGE OF THIS PRODUCT. BEFORE USING, READ AND UNDERSTAND ALL CAUTIONS, WARNINGS, INSTRUCTIONS AND PRODUCT LABELS. FAILURE TO DO SO COULD RESULT IN POSSIBLE INJURY OR PROPERTY DAMAGE.

4140 SW 28TH WAY, FT. LAUDERDALE, FL 33312
TEL 954-584-4446 • FAX 954-584-5556 • TOLL FREE: 866-584-5504
WWW.VECTORMFG.COM

IMPORTANT SAFETY INFORMATION

- Unit operates from AC/DC power converter - make sure AC is 110/120 volts, and 60 Hz
- This cooler/warmer is not a toy, keep it away from children
- **DO NOT** allow the cooler or AC/DC converter to become wet. Operate only in dry, well ventilated area
- This unit does not automatically turn on and off
- The interior of this unit gets quite hot in warming mode. Keep small children from opening unit when warming
- **DO NOT** operate unattended for extended periods of time
- When operating from a vehicle battery, make sure you start your engine after 3-4 hours of operation to recharge the vehicle battery
- **DO NOT** overstuff cooling/heating chamber. Airflow between food containers keeps temperature evenly distributed
- Allow airflow around fan area – blocking airflow will slow cooling or heating

INTRODUCTION

Thank you for choosing the ***Vector Mini Fridge™ Cooler and Warmer,*** one of the most advanced, state of the art units on the market today. Please read this manual carefully before use to ensure optimum performance and avoid damage to the unit itself or power sources from which it operates.

The ***Mini Fridge™ Cooler and Warmer*** is compact, lightweight, and portable. It provides convenient storage for cold or hot beverages and foods, making conventional insulation-only coolers, thermal bottles, jars and insulated chests obsolete.

For extended use:

No need for a refrigerator. Simply plug the ***Mini Fridge™ Cooler and Warmer*** into converter's 12 volt DC socket or vehicle's accessory outlet to keep food and drinks cold or warm. No more digging around in melting ice and water for soggy foods and dripping drinks. No need for ice, dry ice, or cold/hot packs. Ideal for use in a:

- Home or motel - use with the supplied AC/DC 110 volt converter
- Car
- Truck or SUV
- RV, mobile home, camper
- Boat
- At the beach, on picnics, at the campground - use with battery power

For short-term use away from AC power:

When you have to leave the vehicle in the parking lot at the beach, park, campsite, stadium or ballpark, simply plug the ***Mini Fridge™ Cooler and Warmer*** into a reliable cordless, rechargeable power supply, such as:

- Any Vector cordless, rechargeable Jumpstarter & 12 volt DC Power Supply
- The Vector cordless, rechargeable Pocket Power™ or Pocket Generator™

Note: When used with a rechargeable power supply, a full-charge on the power source is recommended for optimum performance.

Completely portable:

Take the ***Mini Fridge™ Cooler and Warmer*** with you, wherever you go, to keep cold or hot food and drinks at just the right temperature. Ideal for use:

- At the office, for lunches and snacks
- In a motel, as a personal mini-fridge
- On the road, for refreshments on long journeys
- On camping and day trips, for cold or hot food and drinks
- At tailgate parties for, cooked dishes, snacks or drinks
- At the beach, picnics or barbecues for cookout supplies - keeps meats and condiments cool or prepared dishes hot
- Holds up to eight 12 oz. soda cans

IMPORTANT SUGGESTIONS:

Vector's ***Mini Fridge™ Cooler and Warmer*** cools like a refrigerator and warms like an oven. For best performance, plug in the unit approximately 2 hours before loading to give it time to warm up or cool down. Always try to fill your unit with pre-chilled or pre-heated food or beverages, as the unit will always perform at its best when you do this. Generally, your unit will cool to approximately 40°F below ambient temperature. To ensure optimum performance, always keep the unit out of direct sunlight when running on the cold cycle. When the unit is running on the warm cycle, it will warm to approximately 120°F. On cold days, the unit will need more time to reach the maximum warm temperature. Contact Technical Support at 954-584-4446 or toll free at 866-584-5504 for further information.

The ***Mini Fridge™ Cooler and Warmer*** can be used with most food and beverages, either cold or hot. Use with standard household containers or ready-to-use food and drink packaging. *Ideal as a:*

COOLER:

- Beverages - soda, beer, wine, juice, milk, iced tea or coffee, shakes, thirst quenchers, water and more - in cans, bottles, cartons, pouches, sport bottles, etc.
- Food - salads, sandwiches, deli meats, hamburgers, hot dogs, meat or fish, buns, condiments and dips, etc.
- Desserts - puddings, fruit cups, yogurts, etc.
- Snacks - fruit, candy, chocolate, cookies, fruit bars, chips, etc.

WARMER:

- Beverages - hot coffee and tea, cocoa, milk, etc.
- Food - leftovers, pre-packaged/pre-heated meals, take-out food, soups, covered dishes, stews, casseroles, etc.

FEATURES:

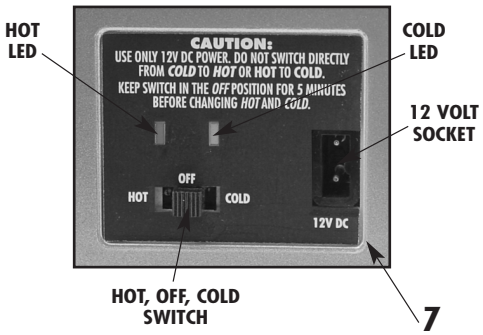
- Indoor operation using the supplied AC/DC converter
- Compact, lightweight, completely portable - use with supplied AC/DC converter or with vehicle or boat's 12 volt DC accessory outlet
- Non-wearing thermoelectric system cools to approx. 40ºF below ambient temperatureor warms to approx. 120ºF
- Operate upright or on its back
- Use with standard household containers or ready-to use packaging

- Rests on vehicle seat or floor for easy access
- Extra-long, 7-foot, 12 volt DC power cord with 12 volt DC plug; equipped with built-in 10-amp fuse to protect the unit and power source
- Durable, weather resistant construction and easy-open and close lid
- Environment-friendly CFC-free polyfoam liner
- Cold/heat transfer to foods via temperature-efficient liner
- Built-in heat dissipation fan with long-life, brushless motor
- HOT/OFF/COOL sliding power switch
- Automatic shut-off to prevent overheating of unit
- Built-in LED "cool" and "hot" indicators

CAUTIONS:

- **This unit is intended for use with the supplied 12 volt DC power source (converter) that can provide at least 4 amperes of current. DO NOT attempt to use with any other power source**
- **NEVER operate unit in an enclosed space. ALWAYS ensure that there is adequate ventilation and free flow of air around the unit, so that warm air expelled by the fan is effectively dissipated**
- **When operating the unit in a vehicle or boat cabin, adequate ventilation must be provided by an air conditioning system or open window. In a car with windows up, air temperatures can reach 150 degrees F**
- **This unit is intended for portable use only; it is not designed to be built-in or recessed - this would interfere with the unit's air dissipation system, and could cause a fire or other safety hazard**
- **Use only with the supplied power cord. If cord becomes worn or damaged, discontinue use and call Vector Customer Service Department for authorized replacement**
- **Never allow the cooler/warmer or AC/DC converter to be immersed in water or other liquid. This will void the warranty**
- **Make sure the AC/DC converter is connected to 110/120 V AC, 60 Hz power**
- **Do not leave plugged in. Disconnect AC/DC converter when not in use, or when cooler is turned to the OFF position**

CA Prop 65 WARNING :
This product contains chemicals known to the state of California to cause cancer or reproductive toxicity.


HOT LED
COLD LED
CAUTION:
USE ONLY 12V DC POWER. DO NOT SWITCH DIRECTLY FROM COLD TO HOT OR HOT TO COLD.
KEEP SWITCH IN THE OFF POSITION FOR 5 MINUTES BEFORE CHANGING HOT AND COLD.
12 VOLT SOCKET
OFF
HOT
COLD
12V DC
HOT, OFF, COLD SWITCH
7

1. E-Z STORE CARRY HANDLE
2. DURABLE AND WEATHER-RESISTANT HOUSING
3. EASY CLEAN ALUMINUM LINER (INSIDE)
4. EASY CLOSE LATCH
5. EXTRA LONG POWER 7' POWER CORD
6. 12 VOLT FUSE PROTECTED DC PLUG FOR USE WITH VEHICLE, OR PORTABLE POWER SOURCES
7. COOL/WARM LED INDICATORS
8. AC/DC CONVERTER

USING THE UNIT AS A COOLER

1. Make sure that the unit's HOT/OFF/COOL switch is in the OFF position. Start vehicle, or turn ignition to "accessory" position.
2. Insert the DC plug into the converter or vehicle's 12 volt DC accessory outlet and the other end into socket on cooler/warmer.
3. Move the HOT/OFF/COOL switch on the unit to the COOL position.
4. The LED COOL indicator will light (GREEN light) to show that the unit is cooling.
5. Put items into the unit and close the door. Do not overstuff the unit or keep the door from closing.
6. Keep unit door closed during operation and re-close it quickly when adding items to it or removing items from it.
7. After use, turn the switch to the OFF position and empty the unit.
8. Disconnect the power cord from the accessory outlet and from the unit. Disconnect the converter from AC. Clean unit as described in the Care & Maintenance section of this manual.
9. Store in a cool, dry area out of direct sunlight.
10. Keep switch in off position for five minutes before changing between hot or cold.

CAUTIONS:

- **The unit takes about 2 hours to reach its maximum cool temperature (approx. 40°F below ambient temperature). It is recommended that items to be placed in the unit be pre-chilled. This will assist the unit in reaching the lowest temperature as quickly as possible**
- **The unit will continue to operate as long as the vehicle's battery provides power**
- **If the vehicle engine is turned off, the unit will continue to draw power (a nominal 3.6 amps or 44 watts) from the vehicle battery**
- **If the engine is switched off for a long period (overnight) it is important to disconnect the unit from the accessory outlet to avoid draining the vehicle's battery**

WARNINGS:

- **Food will stay cool for some time after the unit is disconnected or turned off, but temperature will rise to that of the surrounding air**
- **Observe common sense hygiene rules, as with any cooling unit. Do not eat or drink perishable items that may have spoiled or become contaminated from lack of proper temperature control**

USING THE UNIT AS A WARMER

1. Make sure that the unit's HOT/OFF/COOL switch is in the OFF position.
2. Insert the DC plug into the converter or vehicle 12 volt DC accessory outlet and the other end into socket on unit. Start vehicle, or turn ignition to "accessory" position.
3. Move the HOT/OFF/COOL switch on the unit to the WARM position.
4. The LED WARM indicator will light (RED light) to show that the unit is warming.
5. Put items into the unit and close the lid. Do not overstuff the unit. The unit's warming system is monitored by an automatic switch that turns the heating system on and off when excessively high temperatures are reached.
6. Keep unit's lid closed during operation, and re-close it quickly when adding items to it, or removing items from it.
7. After use, turn the switch back to the OFF position. Remove any food items.
8. Disconnect the power cord from the power supply socket and from the unit. Clean unit as described in the Care & Maintenance section of this manual.
9. Store in a cool, dry area out of direct sunlight.

CAUTIONS:

- **The unit is intended to maintain the temperature of pre-heated food and beverages; it is not designed to warm cold items**
- **The unit takes about 2 hours to reach its maximum warm temperature (approx. 120ºF). It is recommended that items to be stored in the warmer be pre-heated. This will assist the unit in reaching the maximum temperature as quickly as possible**
- **The unit will continue to operate as long as the vehicle's battery provides power**
- **If the vehicle engine is turned off, the unit will continue to draw power (a minimal 3.6-amps or 44 watts) from the vehicle battery**
- **If the engine is switched off for a long period (overnight) it is recommended that the unit be disconnected from the accessory outlet to avoid draining the vehicle's battery**

WARNINGS:

- **Food will stay warm for some time after the unit is disconnected or turned off**
- **Observe common sense hygiene rules, as with any warming unit. Do not eat or drink perishable items that may have spoiled or become contaminated**

CONNECTING TO THE SUPPLIED AC/DC CONVERTER

- Plug supplied converter's power cord into standard 110/120 volt 60 Hz outlet
- Make sure that unit's COOL/WARM/OFF switch is in the off position
- Insert the 12 volt DC socket of the AC/DC power adapter and the other end into socket on cooler/warmer.
- Continue with steps 4–9 for cooler or warmer function

CONNECTING TO A PORTABLE 12 VOLT DC POWER SUPPLY

- Make sure that the unit's HOT/OFF/COOL switch is in the OFF position.
- Insert the 12 volt DC plug on the power cord into the 12 volt DC socket on the portable power supply and the other end of the cord into socket on unit.
- Continue with steps 4-9, for cooler or warmer function. Observe all CAUTIONS AND WARNINGS. Refer to page 4 for Cooling and page 5 for Warming.

Note: ***With a current draw of approximately 3.6 amps (44 watts), the unit will operate for approximately 1.2 hours from a fully charged 12 volt DC portable power supply, such as the Vector Pocket Power™ (Jumpstarter/Powe Supply such as the VEC021 will give approximately 6 hours of operation and with VEC020 approximately 4.5 hours of operation.***

OBSERVE ALL CAUTIONS AND WARNINGS.

CARE AND MAINTENANCE

The ***Mini Fridge™ Cooler and Warmer*** is ruggedly constructed to provide years of dependable service.

- After each use, clean the unit, inside and out, with a soft cloth and mild soap solution.
- Do not scrape, scratch or puncture the surface of the unit with sharp objects or abrasives.
- Dry the unit properly and store in a cool, dry place.
- Always make sure the power cord and converter are disconnected before storing.
- ***Never*** allow the unit to be immersed in liquid.

TROUBLESHOOTING:

Problem/Possible Cause/Remedy

- ***Mini Fridge™ Cooler and Warmer*** is not functioning as cooler or warmer (fan is not turning)
- Accessory outlet of DC power supply is not functioning-check by plugging in a 12VDC appliance. If not, clean accessory outlet and reconnect the ***Mini Fridge™ Cooler and Warmer*** .
- Fuse or circuit breaker in accessory outlet is open. Reset breaker or check fuse, and replace fuse if necessary. (See paragraph below)
- Ignition is switched off - start engine or switch ignition to "accessory" position.
- Fuse in unit's DC power plug is blown - see Fuse Replacement section for location of fuse and instructions for checking and replacing fuse.

- Refrigerator/warmer is not cooling or heating properly (fan is not turning).
  - Fan is defective. Call Vector Customer Service Department for return/replacement instructions. This unit is not user-serviceable, it must be returned to Vector Manufacturing for professional service or repair. Any attempt to service by user will void warranty.
- Refrigerator/warmer is not cooling or heating, but fan is turning
  - Cooling unit is defective. Call Vector Customer Service Department for return/replacement instructions. This unit is not user-serviceable, it must be returned to Vector Manufacturing for professional service or repair. Any attempt to service by user will void warranty
- Refrigerator/warmer takes longer than 2 hours to reach desired temperature inside
  - Low battery or supply voltage. Check converter output
  - Unit will attain desired temperature more efficiently if items are pre-heated or pre-chilled
  - Fan area is blocked - Move unit or object

FUSE REPLACEMENT

The power cord is fuse-protected against short-circuiting, by a 10-amp fuse located in the tip of the cigarette lighter plug. If the DC socket is powered, but the unit does not operate, then the cooler/warmer fuse may be open.

To inspect or replace the DC Power Cord Fuse

1. Unscrew the end-cap of the DC plug counterclockwise.
2. Remove fuse, inspect it for an open element, and replace with a new 10 amp fuse, if needed.
3. Re-attach the end-cap to the plug.
4. If new fuse opens, call Vector Customer Service Department for further instructions and possible return/replacement. This unit is not user-serviceable, it must be returned to Vector Manufacturing for professional service or repair. Any attempt to service by user will void warranty.

SPECIFICATIONS:

Capacity . . . . . .8 cans /1.25 gallons (US)

Operating Voltage . . . . . 12 volt DC

Power Cord: . . . . . .7', with 10 amp fuse protected 12v DC plug

AC/DC Power Adapter: . . . . . .110/120 volt AC to 12 volt DC at 4 amps.

Amperage draw: . . . . . .3.6 amperes (approx. 44 watts)

Cooling Performance: . . .Cools to average 40ºF below ambient temperature

Warming Performance: . . . . . .Warms to 60°F above surrounding air or 120°F maximum

Cold/Heat Transfer: . . . . . .Temperature-efficient, aluminum-coated liner

Insulation: . . . . . .CFC-free polyurethane liner

Heat Dissipation: . . . . . Built-in fan with long-life, brushless motor

Warm/Cool System: . . . . . .Non-wearing thermoelectric

Inside Dimensions . . . . . .5.8″W x 5.5″D x 9.85″H

Outside Dimensions . . . . . .8″W x 7.25″D x 14″H

Weight . . . . . .5.2 lbs (2.36 Kg.)

2 YEAR LIMITED WARRANTY PROGRAM

This limited warranty program is the only one that applies to this product, and it sets forth all the responsibilities of Vector Manufacturing, Ltd., regarding this product. There is no other warranty, other than those described herein.

This Vector Manufacturing, Ltd. product is warranted, to the original purchaser only, to be free of defects in materials and workmanship for two years from the date of purchase without additional charge. The warranty does not extend to subsequent purchasers or users. Vector Manufacturing, Ltd. will not be responsible for any amount of damage in excess of the retail purchase price of the product under any circumstances. Incidental and consequential damages are specifically excluded from coverage under this warranty.

This product is not intended for commercial use. This warranty does not apply to accessories or damage to units from misuse or incorrect installation. Misuse includes wiring or connecting to improper polarity power sources.

RETURN/REPAIR POLICY: Defective products, other than accessories, may be returned postage prepaid to Vector Manufacturing. Any defective product, other than accessories, that is returned to Vector Manufacturing within 30 days of the date of purchase will be replaced free of charge. If such a product is returned more than 30 days but less than two years from the purchase date, Vector Manufacturing will repair the unit or, at its option, replace it free of charge.

If the unit is repaired, new or reconditioned replacement parts may be used, at Vector Manufacturing's option. A unit may be replaced with a new or reconditioned unit of the same or comparable design. The repaired or replaced unit will then be warranted under the terms of the remainder of the warranty period. The customer is responsible for the shipping charges on all returned items after 30 days. During the warranty period, Vector Manufacturing, Ltd. will be responsible for the return shipping charges.

LIMITATIONS: This warranty does not cover accessories, bulbs, fuses and batteries, defects resulting from normal wear and tear (including chips, scratches, abrasions, discoloration or fading due to usage or exposure to sunlight), accidents, damage during shipping to our service facility, alterations, unauthorized use or repair, neglect, misuse, abuse, failure to follow instructions for care and maintenance, fire, flood and Acts of God.

If your problem is not covered by this warranty, call our Technical Support Department at (954) 584-4446 or Toll Free at (866) 584-5504 for general repair information and charges if applicable. You may also contact us through our website at www.vectormfg.com.

STATE LAW RIGHTS: This warranty gives you specific legal rights. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the exclusions or limitations stated herein may not apply. This warranty gives the purchaser specific legal rights; other rights, which vary from state to state, may apply.

TO REQUEST WARRANTY SERVICE FOR THIS PRODUCT: Contact Vector Manufacturing Technical Support by telephone, fax or mail. We suggest that you keep the original packaging in case you need to ship the unit. When returning a product, include your name, address, phone number, dated sales receipt (or copy) and a description of the reason for return and product serial number. After repairing or replacing the unit, we will make every effort to return it to you within four weeks.

WARRANTY ACTIVATION: Please complete Warranty Activation Card and mail to Vector Manufacturing. Enter "VEC224M or VEC224S" as Model and "Mini Fridge - Cooler Warmer" as Product Type. All Vector Manufacturing, Ltd. products must be registered within 10 days of purchase to activate this warranty. Mail the completed registration form, along with a copy of the original sales receipt to:

ATTN.: CUSTOMER SERVICE / VECTOR MANUFACTURING, Ltd.
4140 SW 28th Way, Ft. Lauderdale, FL 33312
PH: 954-584-4446 • TOLL FREE: 866-584-5504 • Fax: 954-584-5556.
You may also contact us at our web site www.vectormfg.com.

WARRANTY IS NON-TRANSFERABLE AND NON-REFUNDABLE.

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